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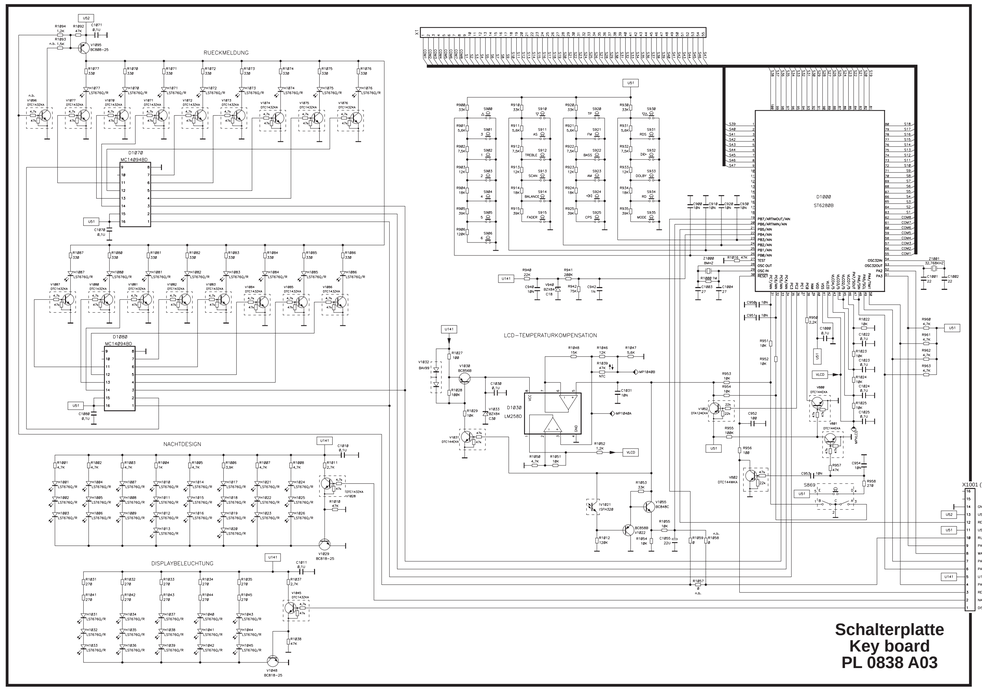
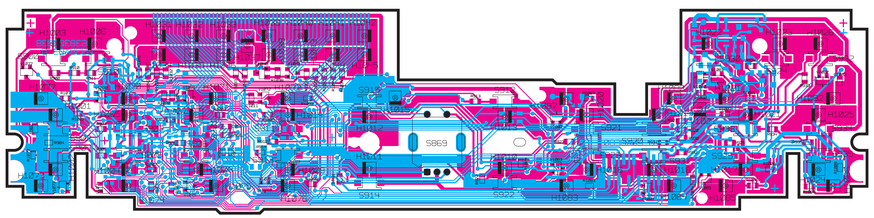
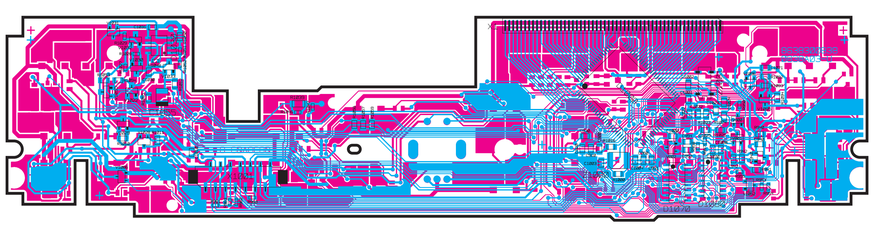
Schalterplatte Key board PL 0838 A03



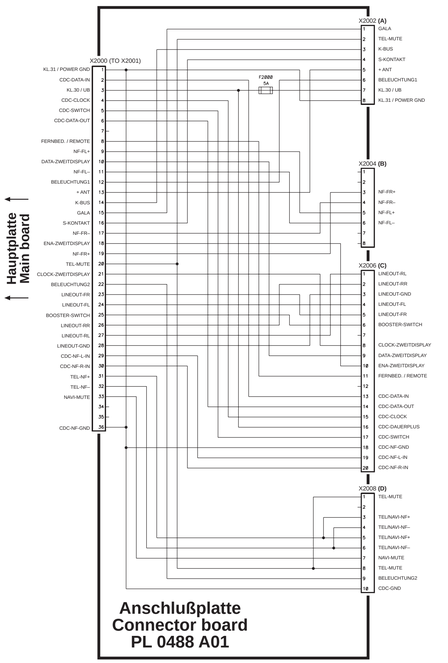
Schalterplatte Key board PL 0838 A03 Chip

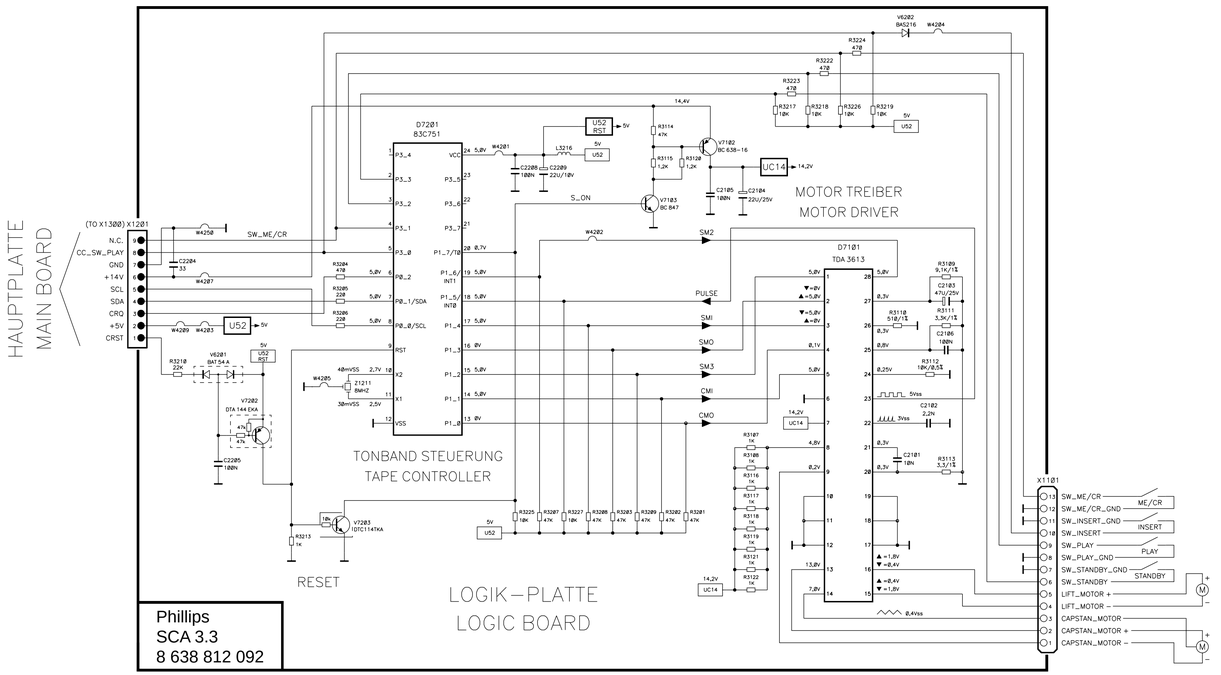


Schalterplatte Key board PL 0838 A03 Chip



Anschlußplatte Connector board PL 0488 A01

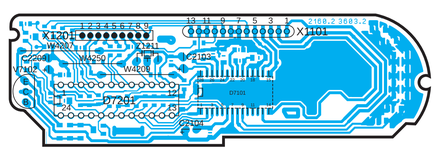




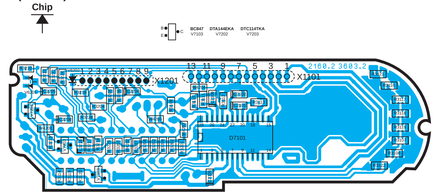
Logik-Platte Logic board (SCA 3.3)

X1201 (TO X1300)
1 = CRST
2 = +5V
3 = CRQ
4 = SDA
5 = SCL
6 = +14V
7 = GND
8 = CC_SW_PLAY
9 = N.C.

X1101
1 = CAPSTAN_MOTOR –
2 = CAPSTAN_MOTOR +
3 = CAPSTAN_MOTOR
4 = LIFT_MOTOR –
5 = LIFT_MOTOR +
6 = SW_STANDBY
7 = SW_STANDBY_GND
8 = SW_PLAY
9 = SW_PLAY_GND
10 = SW_INSERT
11 = SW_INSERT_GND
12 = SW_ME / CR_GND
13 = SW_ME / CR



Logik-Platte Logic board (SCA 3.3) Chip

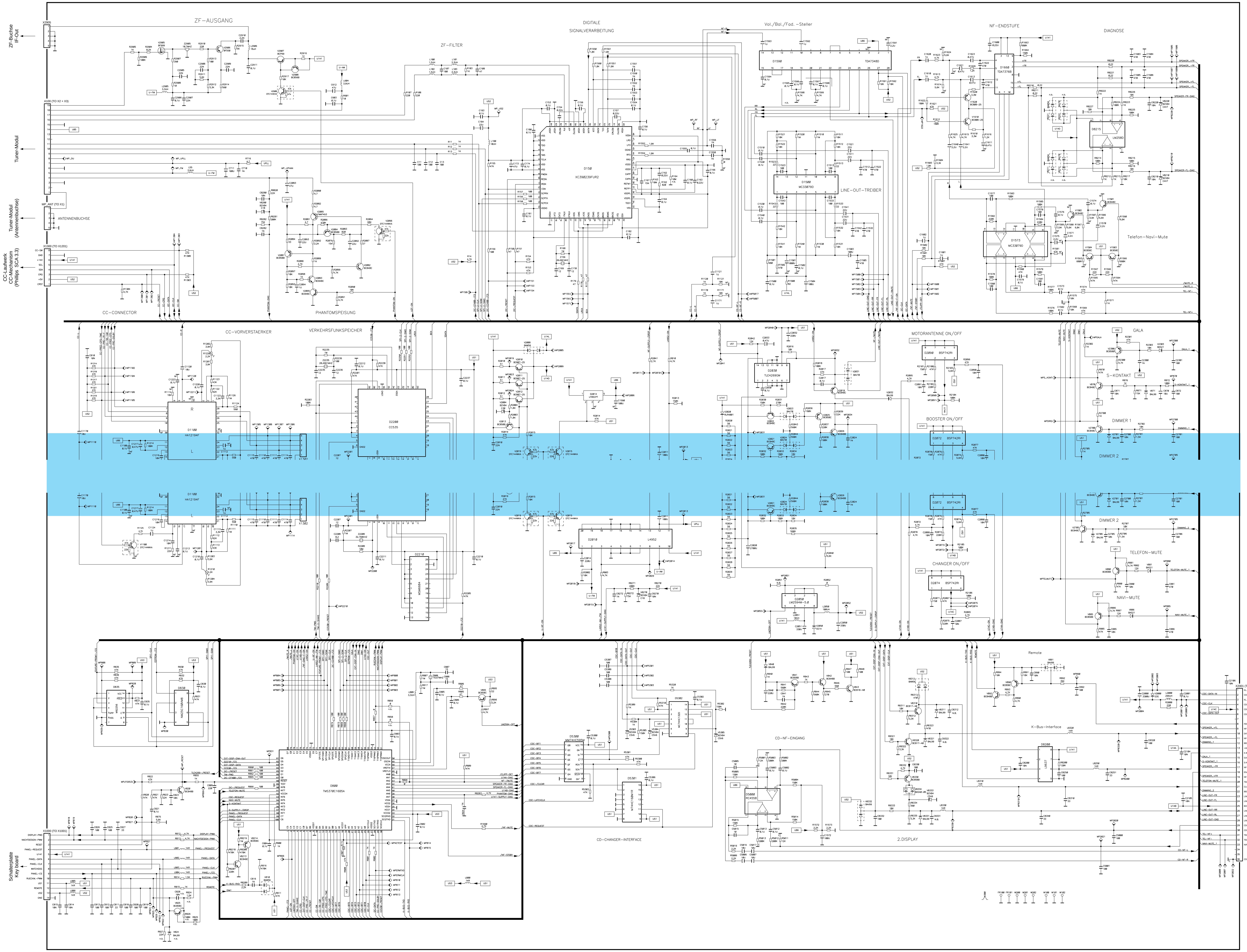


BLAUPUNKT AUTORADIO **Audi Concert Plus A8**
7 649 249 380

Audi Concert Plus A4/A6
7 649 246 380

8 622 402 015 BN-WG 06/99

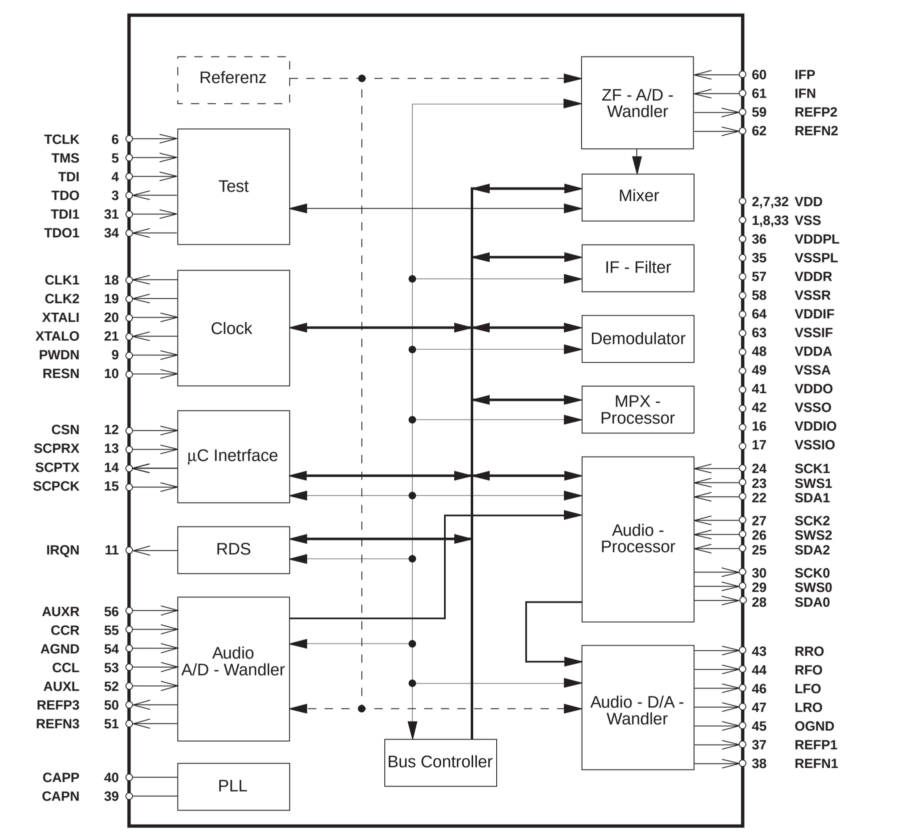
Schaltbild • Circuit diagram



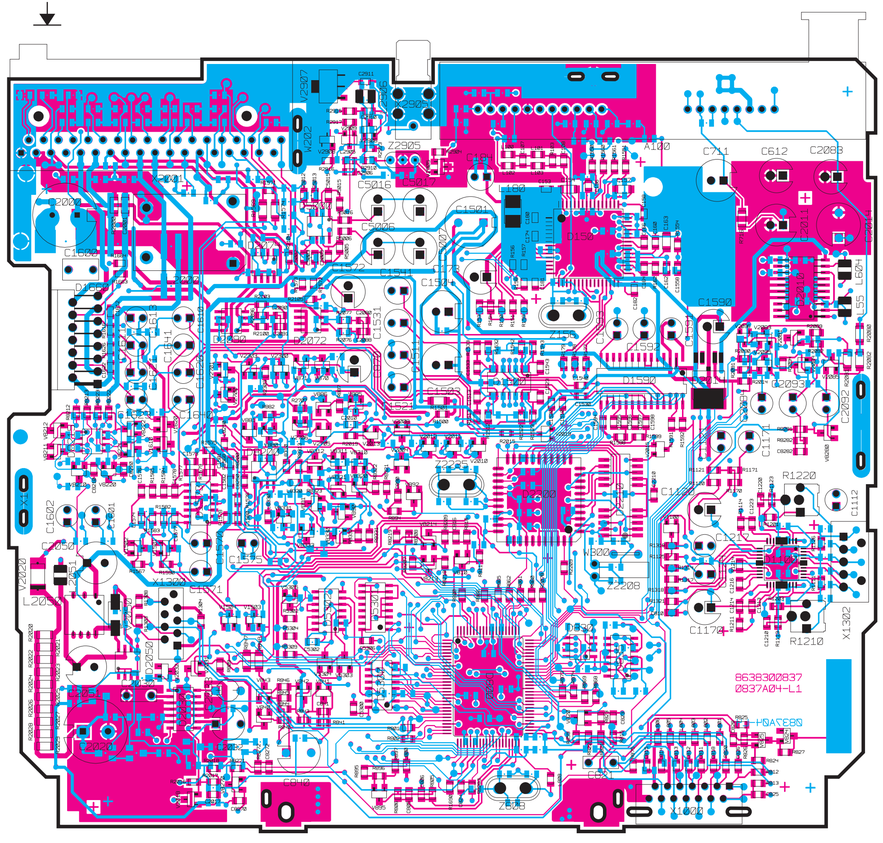
Pin-Belegung des IC D150
Digital IC D150 Pin Configuration

Pin No.	I/O	Name	Funktion	Function
1 2 4	- - I	VSS VDD TDI	Masse 5 V Testdateneingang	Ground 5 V Test Data Input
5 6 7	I I -	TMS TCKL VDD	Test Mode Test Clock 5 V	Testmode Testclock 5 V
8 9 10	- - I	VSS PWDN RESN	Masse Power down Zustand Reset	Ground Power down Mode Hardware reset (active LOW)
11 12 13	O I I	IRQN CSN SCPRX	RDS Alarm/SLS Chip select Eingang Serielle Daten µC Interface	RDS alarm/search stop Chip select µC interface Serial data µC interface IN
14 15 16	O I -	SCPTX SCPCK VDDIO	Serielle Daten µC Interface Clock µC Interface Plusspannung Digitale Ein-/Ausgänge	Serial data µC interface OUT Clock µC interface Voltage for digital I/O
17 18 20	- O I	VSSIO CKL1 XTALI	Masse Digitale Ein-/Ausgänge Programmierbarer Clock 1 28,5 MHz Oszillator	Ground for digital I/O Programmable clock 1 Oscillator 28,5 MHz
21 31 32	O I -	XTALO TDI1 VDD	28,5 MHz Oszillator Testdateneingang 1 5 V	Oscillator 28,5 MHz Test Input 1 5 V
33 35 36	- - -	VSS VSSPLL VDDPLL	Masse Masse (Minus) PLL Plus PLL 5V	Ground Ground (minus) PLL PLL 5V (pos.)
37 38 39	O O -	REFP1 REFN1 CAPN	Audio D/A-Wandler Positive Referenz Audio D/A-Wandler Negative Referenz PLL Kapazität (negativ)	Audio D/A converter (pos. reference) Audio D/A converter (neg. reference) PLL capacity (neg.)
40 41 42	- - -	CAPP VDDO VSSO	PLL Kapazität (positiv) Audio D/A - Wandler 5V Audio D/A - Wandler Masse	PLL capacity (pos.) Audio D/A converter (+5V) Audio D/A converter (ground)
44 45 46	O - -	RFO OGND LFO	Audio Rechts (analog) Masse Analogausgänge Audio Links (analog)	Analogic audio right Ground Analogic audio left
48 49 50	- - O	VDDA VSSA REFP3	5V A/D - Wandler Masse A/D - Wandler Audio D/A-Wandler Positive Referenz	5V A/D - converter Ground A/D - converter Audio D/A converter (pos. reference)
51 52 53	O I I	REFN3 AUXL CCL	Audio D/A-WandlerNegative Referenz Externer Eingang links Cassette Eingang links	Audio D/A converter (neg. reference) Auxillary left Cassette input left
54 55 56	- I I	AGND CCR AUXR	Audioeingänge Masse Cassette Eingang rechts Externer Eingang rechts	Ground for Audio inputs Cassette input right Auxillary left right
57 58 59	- - O	VDDR VSSR REFP2	5 V Masse Audio D/A-Wandler Positive Referenz	5 V Ground Audio D/A converter (pos. reference)
60 61 62	I I O	IFP IFN REFN2	ZF Eingang (plus) ZF Eingang (minus) Audio D/A-Wandler Negative Referenz	Positif IF input IF input (neg.) Audio D/A converter (neg. reference)
63 64	- -	VSSIF VDDIF	ZF A/D - Wandler (minus) ZF A/D - Wandler 5 V	IF A/D converter (-) IF A/D converter (+5V)

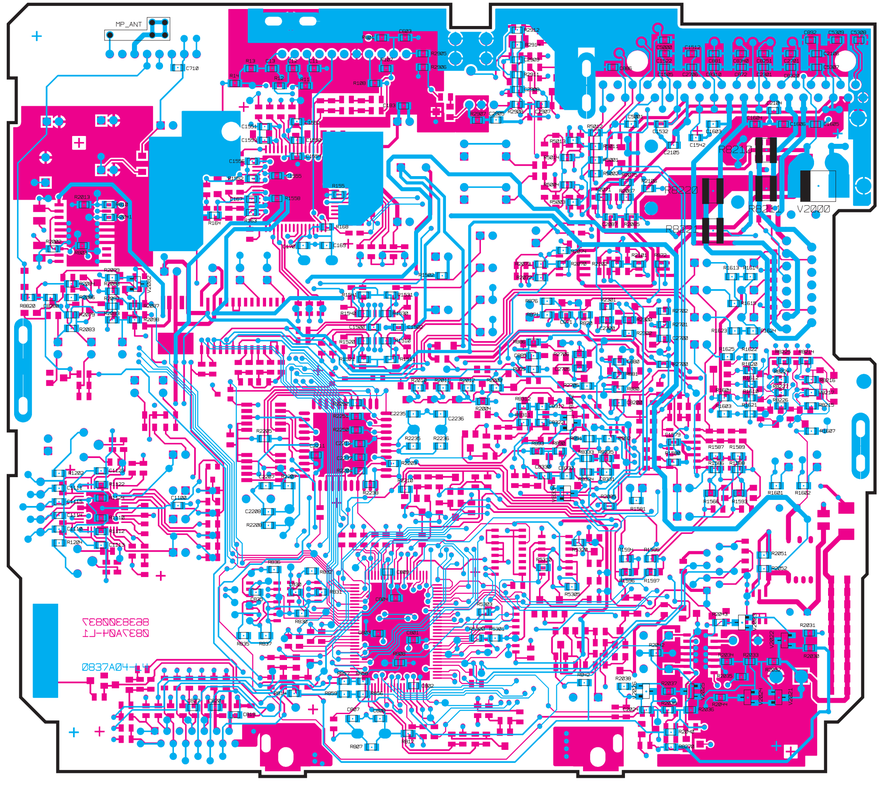
D150



Hauptplatte
Main board
PL 0837 A04
B + Chip

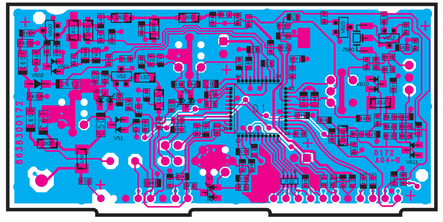


Hauptplatte
Main board
PL 0837 A04
Chip

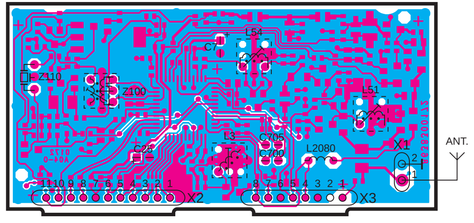


zu Schaltbild Audi Concert Plus A4/A6 und A8 8 622 401 015

HF-Platte
RF board
PL 0172 A04
Chip

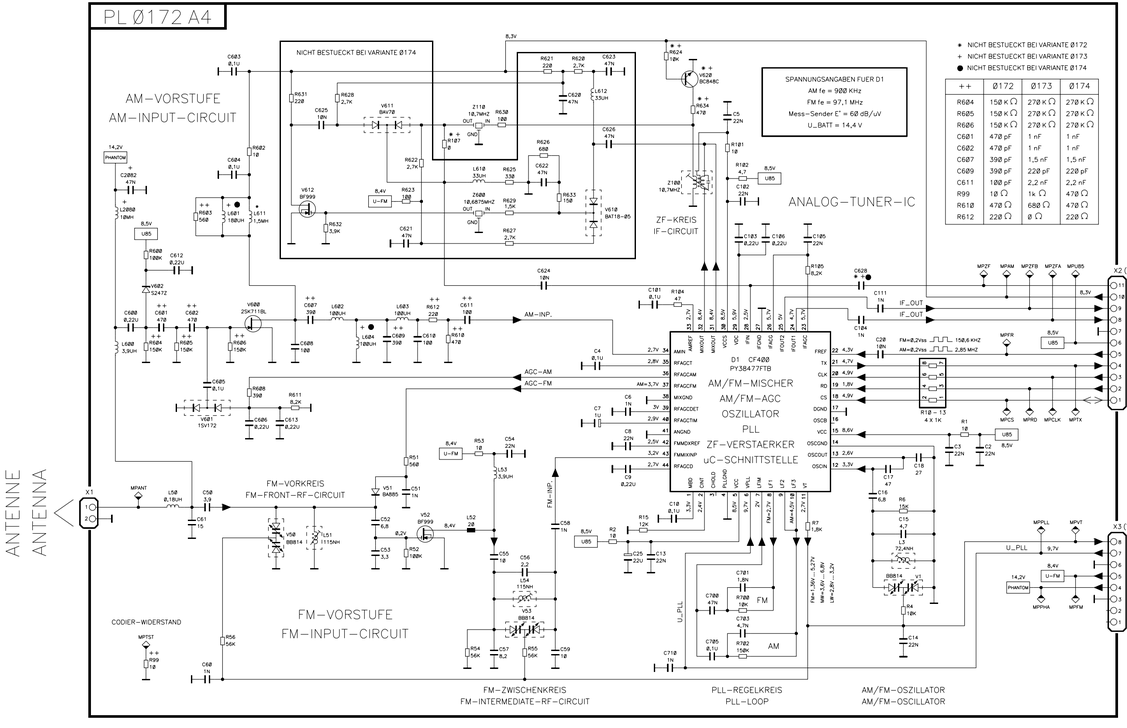


HF-Platte
RF board
PL 0172 A04



X2 (TO A100)
1 = CF400 / CS
2 = SPI_2_SIMO
3 = SPI_2_CLK
4 = SPI_2_SOMI
5 = F_REF
6 = U85 (8,5V)
7 = GND
8 = IF–
9 = IF+
10 = U_AM (8,3V)
11 = N.C.

X3 (TO A100)
1 = MP_ANT
2 = N.C.
3 = GND
4 = +PHANTOM (14V)
5 = U_FM (8,4V)
6 = GND
7 = U_PLL (9,7V)
8 = MP_dU



Prüfdiagnose Tuner IC (D1) Diagnosis test tuner IC (D1)						
Pin	**Band**	**Frequenz**	**E'**	**Uss**	**Vermerke**	**Notice**
24+25 (ZF-OUT)	FM	97,1 MHz	83 dbµV	650 mVss	jeweils gegen Masse	respective against GND
28	FM	97,1 MHz	80 dbµV	25 mVss		
31+32	FM	97,1 MHz	80 dbµV	200 mVss	jeweils gegen Masse	respective against GND
31+32	AM	900 kHz	80 dbµV	200 mVss	jeweils gegen Masse	respective against GND
34 (AM-IN)	AM	900 kHz	80 dbµV	50 mVss		
36	AM	900 kHz	ab 73 dbµV		künstliche Antenne aus	not commutated
37	FM	97,1 MHz	ab 80 dbµV			
43 (FM-IN)	FM	97,1 MHz	94 dbµV	5 mVss		

Pin-Belegung des FM/AM Tuner-IC D1 Tuner IC D1 Pin configuration				
Pin No.	**I/O**	**Name**	**Funktion**	**Function**
1	-	MIXDEC	Mischer Entkopplung	Mixer decoupling
2	-	CINT	für PLL	for PLL
3	-	CHOLD	für PLL	for PLL
4	-	PLLGND	PLL - Masse	PLL Ground
5	-	VCC	8,5V	8,5V
6	-	VPLL	PLL Oberspannung	PLL top voltage
7	I	LFINP	Schleifenfiltereingang	PLL loop filter Input
8	O	LF1	Schleifenfilter 1	PLL loop filter Output 1
9	O	LF2	Schleifenfilter 2	PLL loop filter Output 2
10	O	LF3	Schleifenfilter 3	PLL loop filter Output 3
11	I	VTUNE	Abstimmspannung	Tuning voltage
12	I	OSCINP	Oszillator Eingang	Oscillator Input
13	O	OSCOUT	Oszillator Ausgang	Oscillator Output
14	-	OSCGND	Oszillator Masse	Oscillator Ground
15	O	VCC	8,5V	8,5V
16	O	OSCBUF	Oszillatorausgangsstreiber	Oscillator Buffer Output
17	I	DGND	Digitale Masse	Digital Ground
18	I	CS	Chip Select	Chip Select
19	I	RD	Dateneingang	DATA IN
20	I	CLK	Clock	Clock
21	O	TX	Datenausgang	DATA OUT
22	I	FREF	Referenzfrequenz	Reference frequency
23	-	IFAGC2	ZF Regelspannung 2	IF AGC 2
24	O	IFOUT1	ZF - Ausgang 1	IF output 1
25	O	IFOUT2	ZF - Ausgang 2	IF output 2
26	-	IFAGC1	ZF Regelspannung 1	IF AGC 1
27	-	IFGND	ZF Masse	IF Ground
28	I	IFIN	ZF Eingang	IF Input
29	-	VDC	Interne Referenzspannung	Internal reference voltage
30	-	VCC	8,5V	8,5V
31	O	MIXOUT2	Mischerausgang 2	Mixer Output 2
32	O	MIXOUT1	Mischerausgang 1	Mixer Output 1
33	-	AMREF	AM - Referenzeingang	AM reference Input
34	I	AMMIXIN	AM Mischereingang	AM Mixer Input
35	-	RFAGC3	HF Regelzeitkonstante (aufregeln)	RF AGC 3
36	O	RFAGCAM	HF Steuerspannung Vorstufe AM	RF AGC for AM input stage
37	O	RFAGCFM	HF Steuerspannung Vorstufe FM	RF AGC for FM input stage
38	-	MIXGND	Mischer Masse	Mixer Ground
39	-	RFAGC2	HF Regelzeitkonstante (Detektor)	RF AGC 2
40	-	RFAGC1	HF Regelzeitkonstante (abregeln)	RF AGC 1
41	-	ANGGND	Analog Masse	Analog ground
42	-	FMMIXREF	Referenzspannung FM Mischer	Reference voltage FM mixer
43	I	FMMIXINP	FM Mischer Eingang	FM mixer input
44	-	RFAGCD	AGC Entkopplung	AGC decoupling